

Product: Polarization Beam Combiner/Splitter

Part Number	Spec Number	Version	Date
PBC/PBSXXXXXXXXXX	S210	Rev 01	04/07/2024

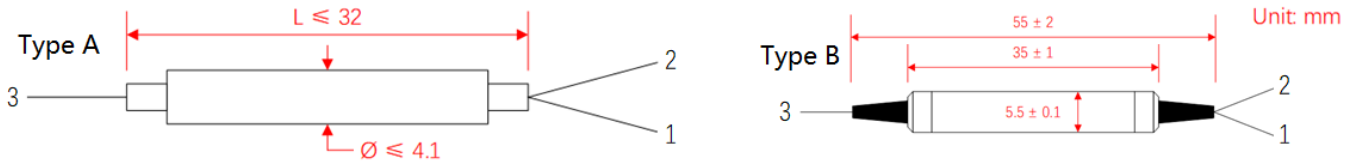
1 Specifications

Item	Parameters	Symbol	Value	Units	Note
1.	Center Wavelength	λ_c	1550	nm	
2.	Operating Wavelength Range	λ_{op}	± 30	nm	
3.	Typ. Insertion Loss, 23 °C	IL	0.5	dB	
4.	Max. Insertion Loss	IL	0.6	dB	
5.	Min. Extinction Ratio, 23 °C (PBC: P1/P2-P3, PBS: P3-P1/P2)	ER	32	dB	
6.	Min. Return Loss	RL	50	dB	
7.	Min. Directivity	DIR	50	dB	
8.	Max. Optical Power	Pop	5	W	
9.	Max. Peak Power for ns pulse	Pp	10	kW	
10.	Fiber Type		PM1550 or Specify		
11.	Operating Temperature	Top	-5 to 70	°C	
12.	Storage Temperature	Tstor	-40 to 85	°C	

Note:

* IL is 0.3 dB higher, RL is 5 dB lower, ER is 2 dB lower and Optical Power is 1 W only for each connector added. Connector key is aligned to slow axis.

2 Drawings



3 Device Label, Delivery Data, RoHS Requirement

Triple-Stone standard format. RoHS compliant.

4 Order Information

PBC-1-2-3-4-5-6-7-8-9-10-11 or PBS-1-2-3-4-5-6-7-8-9-10-11

1.	Wavelength	55 - 1550 nm, SS - Specify
2.	Handling Power	01 - 1 W, 05 - 5 W, SS - Specify
3.	Fiber Type for Port1	1 - PM1550, 2 - SMF-28, S - Specify
4.	Fiber Type for Port2	1 - PM1550, 2 - SMF-28, S - Specify
5.	Fiber Type for Port3	1 - SMF-28, 2 - Slow axis aligned 45° to Port1, 3 - Slow axis aligned to Port1
6.	Fiber Length	1 - 1.0 m, S - Specify
7.	Jacket Type	B - Bare fiber, L - 900 μm loose tube, S - Specify
8.	Connector Type	1 - FC/UPC, 2 - FC/APC, N - None, S - Specify
9.	Working Axis for Port1	F - Fast axis blocked, S - Slow axis blocked
10.	Package Type	A - Type A, B - Type B
11.	Power Type	C - Continuous Wave, P - Pulse Application